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**THE LUDHIANA DISTT. COOP. MILK PRODUCERS UNION LTD.,
VERKA MILK PLANT, FEROZEPUR ROAD LUDHIANA.**

No. LMU/SYS/ 19045-50

Dated: 22/12/2018

Subject: Notice Inviting Tender for GPS Devices & Tracking Services on rental basis for milk tankers & Can route vehicles of Verka Ludhiana Dairy

Dear Sir,

Sealed quotations are invited for hiring/renting of GPS tracking devices and related monitoring services for milk tankers & Can route vehicles operating under Verka Ludhiana Dairy. The work shall include supply, installation, maintenance and data management of GPS devices as per the following job descriptions:

Sr. no.	Job description	Quantity	Amount (in rs.)
1.	Supply, installation and activation of GPS devices on milk tankers of Verka Ludhiana Dairy, ensuring smooth & accurate tracking of tanker routes, Can routes, live location visibility, data recording and system uptime.	80	

Technical Specifications for GPS Devices:

Parameter	Required Specification
Connectivity	5G/LTE primary with 4G/2G fallback
Satellite Support	GNSS (GPS / GLONASS / BeiDou / Galileo)
Position Accuracy	2.5m to 10m
Data Memory	Minimum 128 Mbyte internal
Input Voltage Range	9-90 V DC
Power Consumption	Low consumption with auto sleep mode
Operating Temperature (without battery)	-20°C to +65°C
Storage Temperature (without battery)	-40°C to +85°C

Parameter	Required Specification
Backup Battery	1000–10400 mAh Li-Ion
Interfaces	RS232/RS485 / digital I/O
Protection	IP65 / IP67 rugged casing
Compliance	Preferably AIS—140 compliant

Scope of Work: The contractor shall provide **GPS-based tracking, analytics, and reporting system** to monitor milk tanker movement with the following capabilities:

Sr. No.	Modules	Details
1.	Trip Reports covering	Trip No., Tanker No/vehicle no., Trip Start/End, Location, Route No., assigned BMC, covered BMC, Trip Status, distance travelled, Halts, In/Out time at BMCs, Can route societies, duration, and additional columns as required.
2.	Masters to be provided in software:	<ul style="list-style-type: none"> • Route master • BMC master • Taluka master • Tanker master • Route-BMC mapping master • Driver master
3.	Portal Capabilities	<ul style="list-style-type: none"> • Trip assignment and scheduling • BMC/can route shuffling and approval workflow • Real-time trip supervision • feature of random route shuffling,
4.	Billing Module	<ul style="list-style-type: none"> • BMC/can route trip in/out time • GPS KM travelled • Trip-wise tanker data • Monthly consolidated bill
5.	Dashboard	<ul style="list-style-type: none"> • Total trips, open trips, started trips, completed trips • Live monitoring with colored tanker icons

		<ul style="list-style-type: none"> • Stoppage information & deviation alerts • Quick analytics for management
6.	GIS Mapping Platform	<ul style="list-style-type: none"> • Zoom in/out • Traffic overlays • Key landmarks: hospital, petrol pump, railway station etc.
7.	Mobile Access	<ul style="list-style-type: none"> • Android + iOS app • Alert notifications • Live tracker view
8.	Sensor & Safety Monitoring	<ul style="list-style-type: none"> • Tamper alerts • Ignition monitoring • Harsh driving detection (gyroscope/accelerometer) • Optional fuel monitoring interface • Optional temperature monitoring probe • Geo-fencing alarms
9.	Data Backup & Submission	<ul style="list-style-type: none"> • Monthly digital database submission (Excel/CSV/PDF) • Historical data availability till end of contract • Summary sheet submission for payment verification

Terms and Conditions:

1. Minimum 80 GPS devices shall be installed on milk tankers/Can route vehicles (Mahindra, bolero, Tata 407 etc.) initially. The quantity may increase/decrease during the contract as per requirement of Verka Ludhiana Dairy and shall be adjusted at the same approved rate.
2. Maintenance, servicing, and replacement of faulty GPS devices, SIM cards, power modules, antennas, or any part required to ensure uninterrupted functioning of GPS units
3. Contractor shall provide a web-based tracking portal and mobile application for real-time tracking, route playback, alerts, historical data, distance logs, and reporting of each tanker.
4. Contractor shall provide monthly data backup & digital reports to Verka Ludhiana Dairy along with uptime summary, route summary, and other analytics as required for operational monitoring.

5. Any job not specified above but required for the successful execution of tanker tracking, proper monitoring, availability of reports, or compliance shall be included in the scope of work.
6. The contractor shall ensure proper installation of GPS devices on vehicles without damaging the body, wiring or electricals of tankers.
7. The contractor shall provide a secure web portal and mobile app with following capabilities:
 - Live tracking of each tanker (refresh 10–30 seconds)
 - Route playback/history for minimum 3 months
 - Geo-fencing, speed alerts, stoppage/halt alerts
 - Trip summary & daily movement reports
 - Admin dashboard & multiple user logins
 - Downloadable logs (Excel/PDF)
8. Technology upgrades, firmware updates, or improved versions of devices during the one year contract shall be included without extra cost.
9. The contractor shall provide monthly digital data backup (Excel/CSV/PDF) containing route history, distance travelled, deviations, stoppages, and any anomalies for all tankers.
6. The contractor must submit a monthly summary sheet with the invoice, certified by VLD, to claim payment.
7. Minimum uptime of 98% must be ensured for all installed devices. Faulty devices must be replaced within 48 hours, failing which deductions shall apply.
8. The contractor must ensure data security, privacy and confidentiality of all tanker movements.
 - No third-party sharing, commercial use or storage outside India
 - All data shall be the property of Verka Ludhiana Dairy
 - Upon completion or termination of contract, all data must be handed over and removed from contractor's servers
9. Payment will be made monthly basis for actual installed devices by the 10th of every month after verification of summary sheets and satisfactory uptime of devices.
10. GST will be paid extra as applicable. Any statutory deductions will be made as per rules.
11. The contractor shall provide 24×7 technical support, helpline and on-site assistance when required along with escalation matrix to take care of the Verka Ludhiana dairy requirements.
12. Number of GPS devices may vary somewhat during the tenure of the contract. Major increase/decrease shall be settled mutually.

13. In case of any device malfunction or non-functioning portal, the contractor shall provide immediate alternative arrangements, otherwise the work may be got done from the market at contractor's risk and cost.

14. In case of delayed supplies/erection/commissioning/purchase/execution of work may be completed at the risk, cost and responsibility after expiry of scheduled date without any notice. Extra amount spent on Risk Purchase/completion of work shall be adjusted against the pending payments or same shall be recovered from firm through arbitration proceedings. Purchaser will reserve the right for the risk purchase/execution of the work in case of non-fulfillment of various terms and conditions of the contract.

15. In the event of any difference or dispute having arisen out of any contract or agreement at Milkfed level/unit level/union the same shall be referred to the Registrar, Cooperative Societies, Punjab to decide the dispute himself; or transfer it for disposal to any officer not below rank of Deputy Registrar, Cooperative Societies, Punjab for dispute resolution by the arbitrator. The provision of the Punjab Cooperative societies Act, 1961 and rules, 1963 as amended up to date shall apply to Arbitration Proceeding which shall be held in the office of designated Arbitrator.

16. All taxes if applicable will be deducted as per Rules.

17. If the services of the contractor are not found satisfactory, the contract is liable to be terminated with one-week notice.

18. The contract period shall be of one year, extendable up to 6 months with mutual consent and satisfactory performance.

Sealed quotation should reach this office on or before 30.12.2025 up to 1:00 PM, and the same will be opened on the same day at 3:00 PM in the presence of parties/representatives who wish to be present.

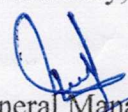
The envelope should be clearly marked:

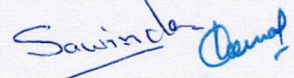
"Quotation GPS Tracking Devices & Services on rental basis for Milk Tankers – Verka Ludhiana Dairy"

Due Date: _____

Thanking you,

Yours Faithfully,


General Manager
Verka Ludhiana Dairy


Sawinder